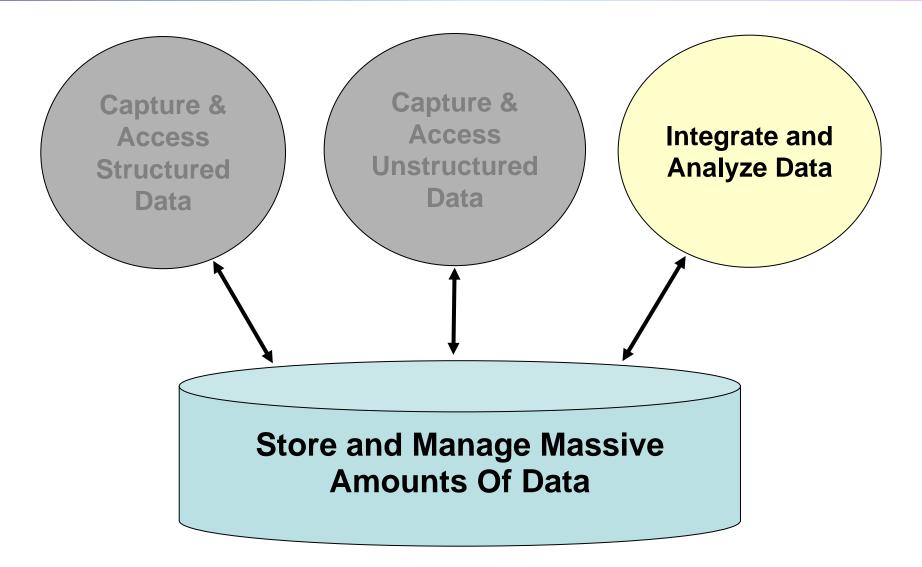


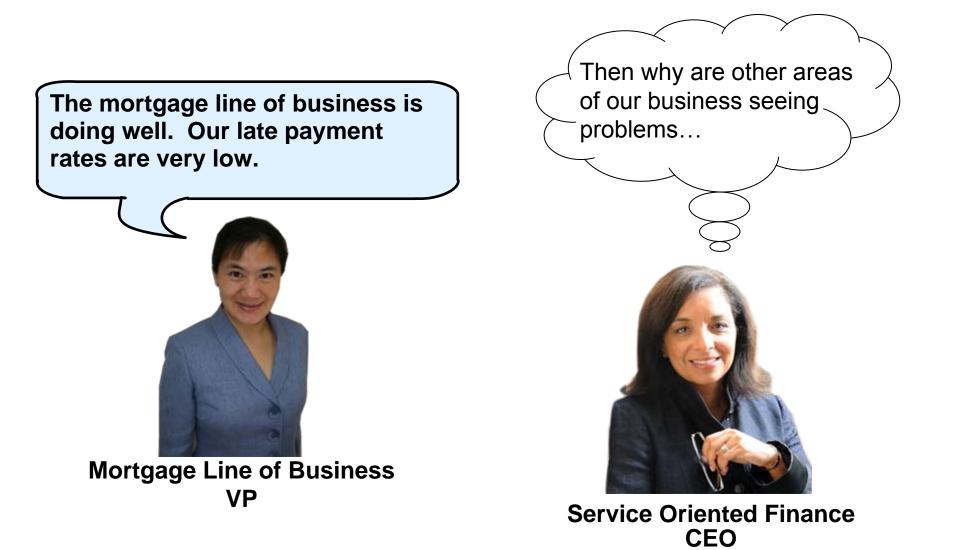
# System z Enables Solutions For A Smarter Planet

Utilizing IBM Information Management Software And System z To Make Smarter Business Decisions

### New Intelligence Can Deliver Even More Business Value



### Without New Intelligence Business Decisions Can Be Suspect...



# Isolated Customer Information Leads To An Incomplete View Of The Business

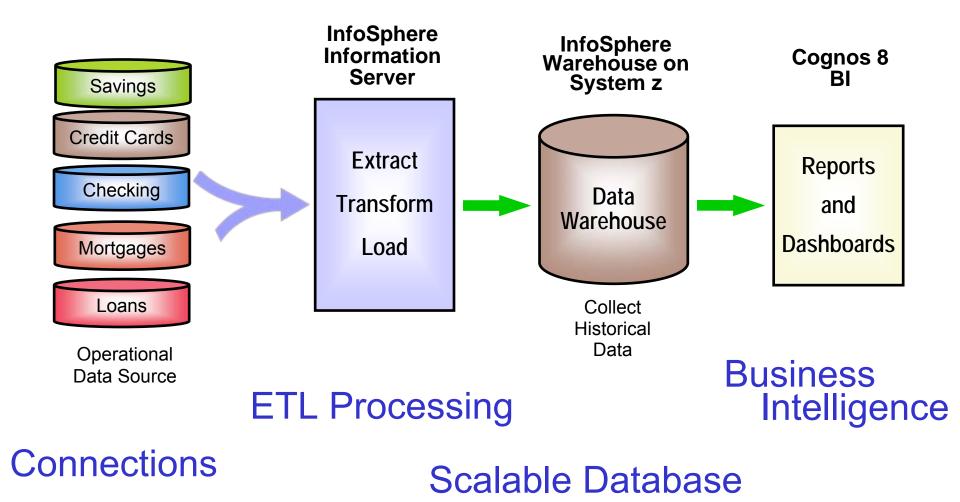
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Viewing Data In Isolation Can Lead To Bad Decisions!							
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3 LF00000326						62818	0
4 LF00000327	Mortga	Mortgage Late Payment Break Down Percentage					
5 LF00000328		mortgago Eator ajmont Broak Bown oroontago					0
6 LF00000331						35715	0
7 LF00000332						55552	0
8 LF00000333						46593	0
9 LF00000336					B	71042	0
10 LF00000337			3%	Zero Late	54955	0	
11 LF00000341			370	0		69101	0
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21 LF00000208	790087754	Ruth K Rogan	720 N	Lake St	FORT LAU FL	87754	0
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23 LF00000213	790581959	Viviana B Terrien	RR 1		SEQUATC TX	81959	0

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## Service Oriented Finance Needs A Complete View Of Their Customers

- Problem: Segmented lines of business store their data in isolated silos
  - Banking, Credit Cards, Mortgage, Consumer Loans
- Requirement: Identify customer trends faster by viewing data from across all areas of business
- Solution: Create new intelligence by building an enterprise data warehouse containing a complete view of customer information

### Create New Intelligence With IBM Information Management Software



# **Industry Data Models Help You Get Started**



IBM industry data models can help you get started quickly.



04 - Making Smarter Business Decisions v1.97.ppt

### IBM Industry Data Models Accelerate Your Data Warehouse Solution

- Industry Data Models are:
  - Best practices from over 400 IBM clients
  - Built on InfoSphere Information Server and InfoSphere Data Architect
- Industry Data Models include:
  - Enterprise Data Warehouse (EDW) Model
  - Business Terminology Data Model
  - Business Solution Templates (BST)
- Industry Data Model Business Benefits
  - 83% report their Data Warehouse is better aligned with business needs
  - Over 50% report that businesses are now getting the information they want
- Industry Data Model Development Benefits
  - 15-20% cost savings to build the warehouse
  - 20-25% decrease in the time spent in design phase
  - 30-40% decrease in time spent in the modeling phase

#### Source: Hurwitz

### InfoSphere Warehouse on System z Is An Excellent Base For Your Data Warehouse

- Based on DB2 for z/OS
- Superior scalability due to System z sysplex exploitation
- Parallel queries, Materialized Query Table, Star Join Enhancements optimize performance
- Near continuous on-line availability
- System z I/O bandwidth benefits warehouse performance
- Data compression beats Oracle
- Proven security
- zIIP exploitation achieves lowest cost
- Benefits from built-in storage virtualization

### Rapid Data Integration With InfoSphere Information Server

Data integration has many complexities; Metadata, ETL, connectivity, performance, etc. How can we simplify our approach?



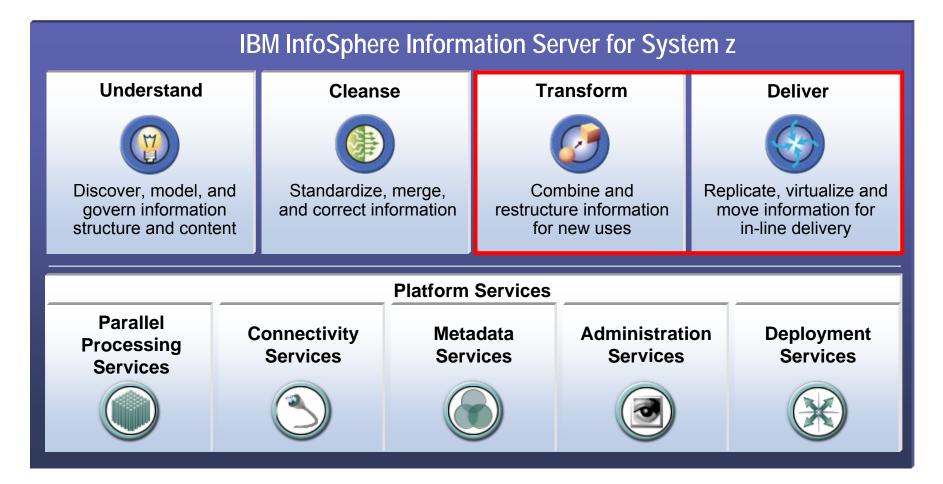
Service Oriented Finance CIO IBM has a consolidated platform that overcomes the difficulties of data integration. Let me tell you about InfoSphere Information Server



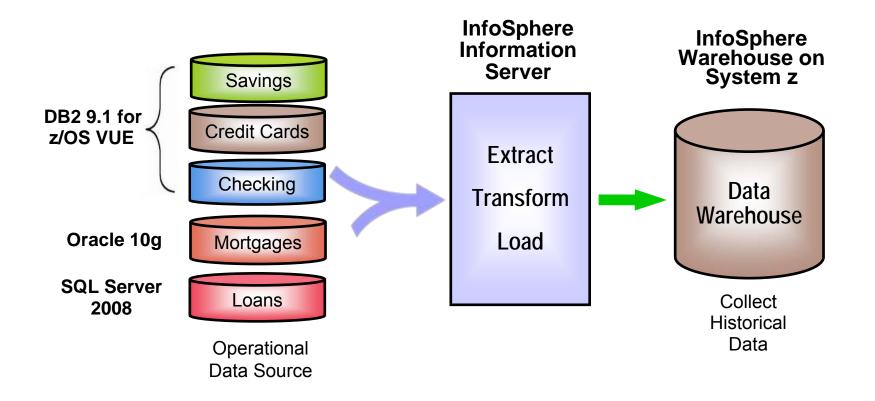
IBM

# **IBM InfoSphere Information Server**

### A consolidated platform for information integration



### InfoSphere Information Server Can Load Your Data Warehouse



# Extract, Transform, And Load (ETL) Jobs Map Data From Sources To Targets

#### <u>A few simple examples:</u>

Mapping source columns to targets Different column names and order Generating new column values Converting data types and formats

000 101 100

PROD ID	CUST ID	SOURCE ID	QTY	BAL	SALEDATE
000 101	100	01	1	\$10,000.00	2007-02-28
000 121	100	01	3	\$500.50	2007-02-28
000 102	101	01	1	\$ 20,000.00	2007-03-01

#### Target: Data Warehouse

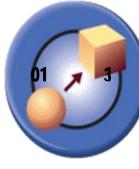
A successful data integration

specification for the business

project requires a detailed

goals and technical

requirements!



\$20,600.60 2007-02-28

Transform

PRODUCT	QTY	CUSTNO	BALANCE	DATE
101	01	100	10000	02-28-2007
121	03	100	500.50	02-28-2007
102	01	100	20000	03-01-2007

Source: Operational Data

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### InfoSphere FastTrack Creates Data Maps And Specifications For Your Data Integration Projects

- Create simplified data maps and transformations using drag and drop
  - Automatically discover source and target columns
    - Uses database introspection and Web 2.0-style tagging
    - Use business terms to accurately match source to target
- Data analysts and developers share project specifications
  - Collaboration and reuse improve productivity
  - Use metadata common to all Information Server tools
  - Standard formats and centralized management for governance
    - Synchronize work across global teams
- Generate ETL code directly from job specifications
  - Reduces costs and errors in ETL job development

### Oracle doesn't offer any of these capabilities

### InfoSphere FastTrack Automatically Discovers Data Mappings Using Business Term Tags

#### **Source Discovery**

Mortgage.Times\_Past\_Due

Checking.NSFCount

Loans.MissedPayments

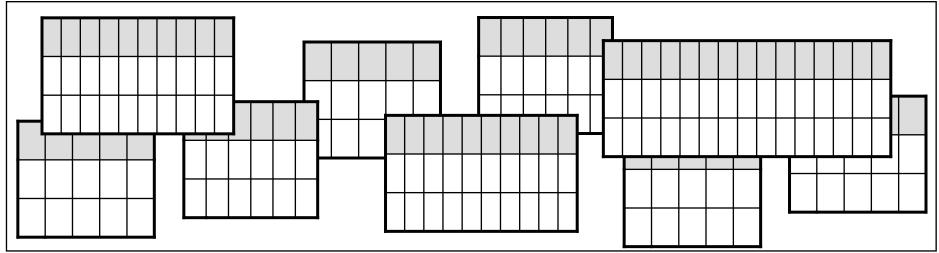
Metadata From Information Server

Mongage to warehouse Mapping Specification						
Source	Target	Tag				
Times_Past_Due	Credit_Events	Failure_To_Pay				
Current_Balance	Ending_Balance	Period_Balance				
Account_Num	Account_ID	Arrangement				
Account_Holder	Customer_ID	Party_ID				

Martagaa Ta Warahaysa Manning Specification

Tags come from:

- Industry data models
- Your corporate standards



## DEMO: Use InfoSphere FastTrack To Create ETL Specification For Warehouse

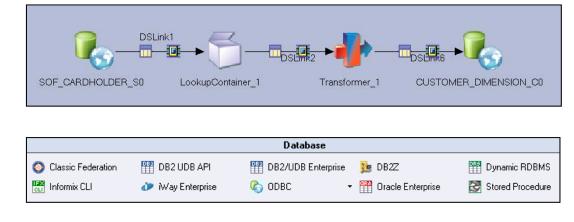
- Use discovery feature to find source columns matching business term tags
- Generate ETL job for InfoSphere DataStage

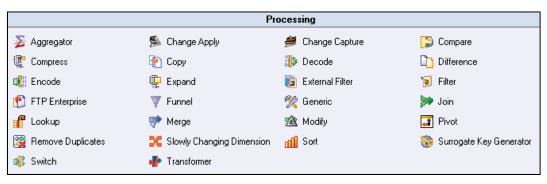
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okup Definitions	4 SOF_MORTGAGE.ACCOUNT_HOLE		_SNAPSHOT_FACT.C			TY IDENTIFIER [WBG		CURRENT_BALANCE [Decimal]	
	5		_SNAPSHOT_FACT.B		BUILDING IDEN			INT_RATE [Decimal] JOINT_ACCOUNT_HOLDER [Char]	
	5	BALANCE	_SNAPSHOT_FACT.D	ATE_ID	STATUS DATE [	WBG]		MONTHLY_PAYMENT [Decimal]	
	1							NAME [Char]	
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# InfoSphere DataStage Creates The Technical Implementation Of Data Integration Jobs

- Creates graphical data integration jobs using hundreds of pre-built transformation and data quality functions
  - Batch & real-time operations
- Stores and retrieves metadata from Information Server
  - Allows easy reuse of integration work between projects
- Advanced parallel processing capabilities
  - Dynamic partitioning and pipelining
  - Scale jobs across additional hardware without modification
- Easily deploy data integration jobs as services for SOA







# IBM InfoSphere Information Server Connects To Almost All Sources Of Data

#### **RDBMS**

DB2 (on z, I, P or X series) Oracle Informix (IDS and XPS) Ingres **MySQL** Netezza Progress RDB RedBrick SQL/DS SQL Server Sybase (ASE and IQ) Teradata Universe UniData **NonStopSQL** And more.....

#### Offering more connectivity than Oracle

#### **General Access**

Sequential File Complex Flat File File / Data Sets Named Pipe FTP

Compressed / Encoded Data External Command Call Parallel/wrapped 3<sup>rd</sup> party apps EMC InfoMover Web logs

Unstructured: e-mail, docs, etc. Content Management Systems Life Sciences

#### **Enterprise Applications**

JDE/PeopleSoft EnterpriseOne Oracle Applications PeopleSoft Enterprise SAS SAP R/3 and BI SAP XI Siebel JDA Ariba Manugistics I2

And more...

Standards and Real Time
WebSphere MQ
Java Messaging Services (JMS)
Java
XML and XSL-T
EBXML
Web Services (SOAP)
Enterprise Java Beans (EJB)
EDI
FIX

FIX SWIFT HIPAA



#### CDC / Replication

DB2 (on z, I, P, X series) Oracle SQL Server Sybase Informix IMS VSAM ADABAS IDMS NonStopSQL Enscribe

#### Legacy

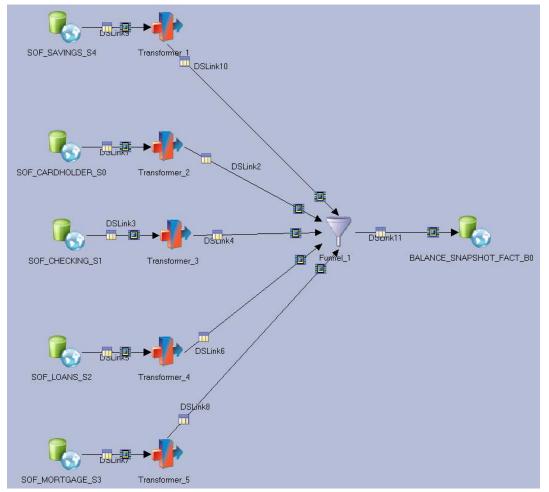
Allbase/SQL C-ISAM D-ISAM Datacom/DB **DS Mumps** Enscribe Essbase FOCUS **IDMS/SQL** ImageSQL Infoman KSAM M204 **MS** Analysis Nomad Nucleus **RMS S2000** Supra TOTAL Turbolmage Unify And many more....



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### DEMO: Use InfoSphere DataStage To Load The Data Warehouse

- 1. Show the DataStage ETL job generated by FastTrack
- 2. Run the DataStage Job to populate the data warehouse fact table



# **IBM Leads In Data Integration**

- Only InfoSphere Information Server delivers unified metadata across all tools for collaboration and reuse
  - Oracle has no integration of metadata across products
  - Manual import/export required
- Model-driven design with FastTrack and DataStage speeds development
  - Oracle has no tools to help manage source to target mappings
- InfoSphere Information Server works in heterogeneous environments
  - InfoSphere gathers, processes, and cleanses more data from more sources than Oracle

"FastTrack enables our analysts to capture more complete business requirements. The ability to translate this information directly into DataStage jobs with up to 70 percent of the code completed will significantly shorten our development lifecycle."

- Roderich Hofmann, project manager, WAVE, IT-Solutions provider of Bank Austria and member of UniCredit Group

# Using New Intelligence Creates New Business Opportunities

If we can identify our risky mortgage assets, we can work to remove them from our books



Service Oriented Finance CEO We can identify risky mortgage customers by watching their activities in other business areas

- Bounced Checks
- Missed Credit Card Payments
- Missed loan payments

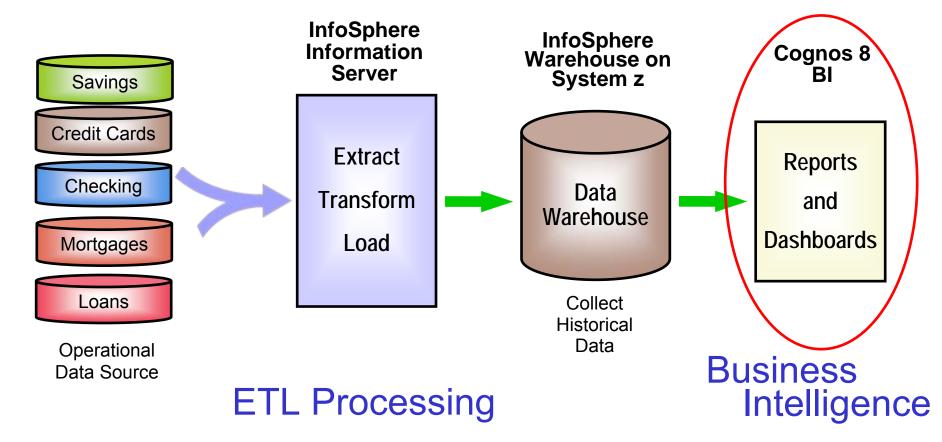


# **Create New Intelligence With IBM Cognos**



IBM

### Use IBM Cognos 8 BI To Optimize Business Decisions

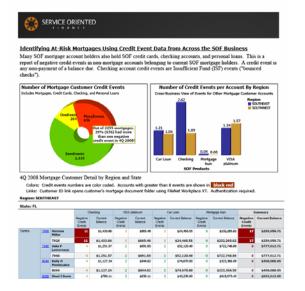


Connections

### **Scalable Database**

# DEMO: Identify Risky Mortgage Accounts Using Cognos 8 BI

- 1. Show report generated in Cognos Report Studio in PDF format
- 2. Report identifies high-risk mortgages by looking at negative credit events in customers other SOF accounts (CC, Checking, etc...)
- 3. Report uses both structured and unstructured data (link to mortgage data stored in FileNet)



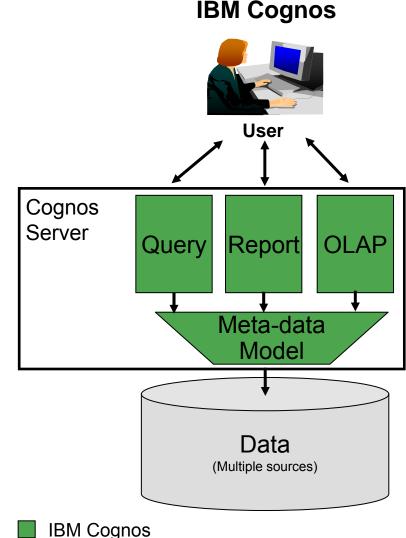
- At risk customers are identified and contacted to refinance
- Risky mortgages can be sold



Mortgage Line of Business VP

# IBM Cognos Is An Integrated Platform Built On SOA

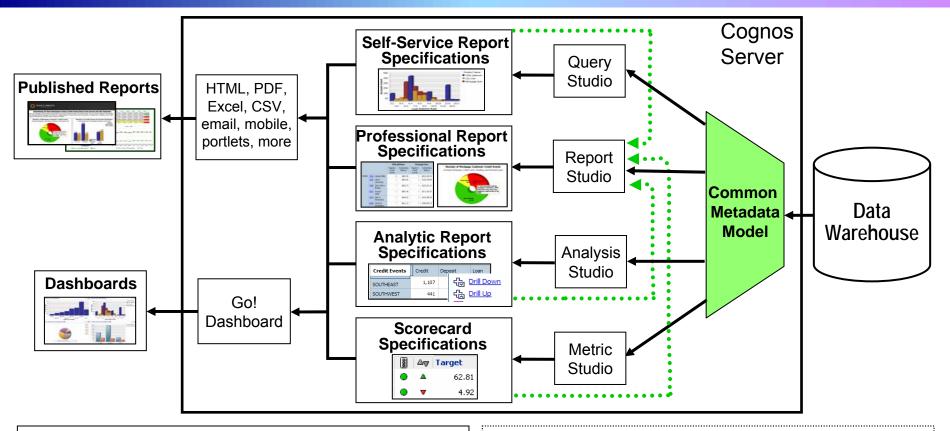
- Implemented in Java, runs on WebSphere
- 100% browser based access
  - Server side business intelligence
  - Users can access new intelligence from anywhere
- Easiest for IT to deploy and manage
  - Scales up and out across heterogeneous hardware and operating systems
  - Unified security
  - Unified administration
- Consistent user interface across tooling
  - Greater user satisfaction and increased business agility with lower IT costs
- Common meta data model
  - Author new intelligence assets once, consume anywhere
  - Common view enables open data strategy
  - Supports Unicode and multilingual features without recreating reports



# Users Can Create The Reports They Need Using Cognos 8 BI

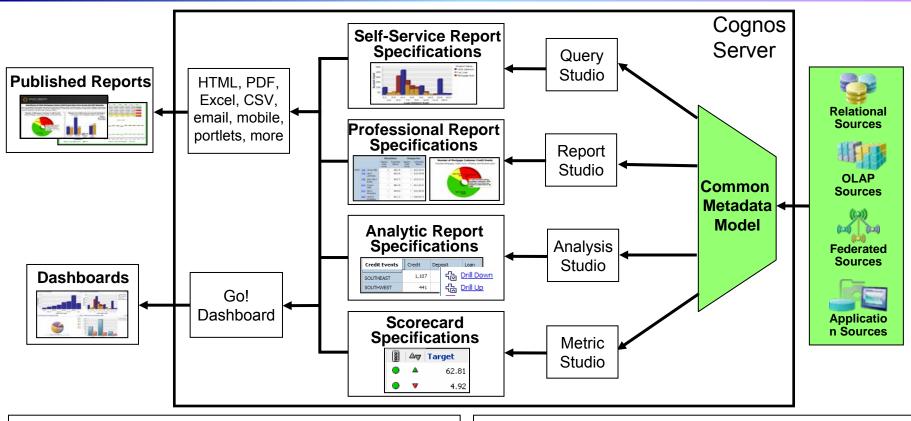
- Query Studio is an easy to learn self-service reporting tool requiring minimal reporting knowledge
  - Helps alleviate report authoring backlog
  - Use existing self-service reports to create a new report
  - Modify the style and layout of self-service reports
- Report Studio is a professional reporting tool to create any style of report
  - Invoices, financial statements, inventory, payroll, etc
  - Provides "pixel-perfect" formatting with absolute control over visual layout
  - Library of lists, crosstabs, charts, maps, operators, constants, functions, filters, more

# Reuse Trusted New Intelligence Assets Across the Cognos 8 Platform



- All new intelligence assets share a common metadata model and common report specification
- Author Once Consume Anywhere
- Ensures consistent information and enables reuse across platform functions
- Oracle has multiple metadata models depending on source type
- Oracle has multiple different report formats
- Oracle cannot reuse assets between tools

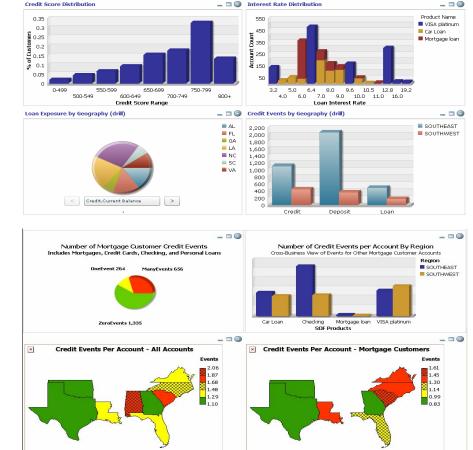
# Include Any Data Source In Your New Intelligence With the Cognos 8 Platform



- Open data strategy enables a common view across a variety of data sources
- Support for application data sources such as SAP ERP
- Combine relational, OLAP, federated, and other data sources in any tool
- All capabilities access a trusted set of information defined in the common metadata model
- As sources change, metadata model can control and identify impacts to report specifications

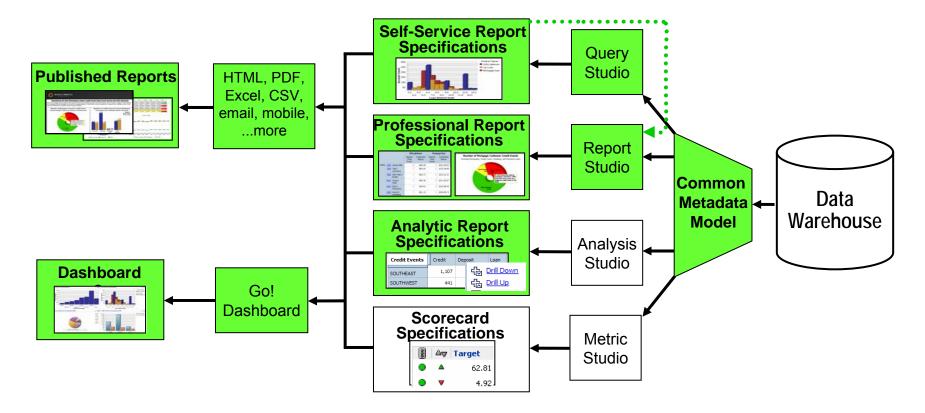
## Cognos Go! Dashboard Enables You To Monitor Business Operations

- Cognos report specifications can be incorporated into dashboards using Cognos 8 Go! Dashboards
- What goes into a dashboard?
  - Self service reports
  - Professional reports
  - Analytical reports
  - Scorecards
  - RSS feeds, HTML, search, more
- Users can create their own dashboards from existing Cognos report assets
- Everything you need to monitor a particular aspect of the business
- Information from several different subjects areas presented at the same time
- Provides dynamic and visually appealing capabilities by using Adobe Flash
  - Everything runs in a browser only Adobe Flash is required
  - Easily change chart types and color palettes



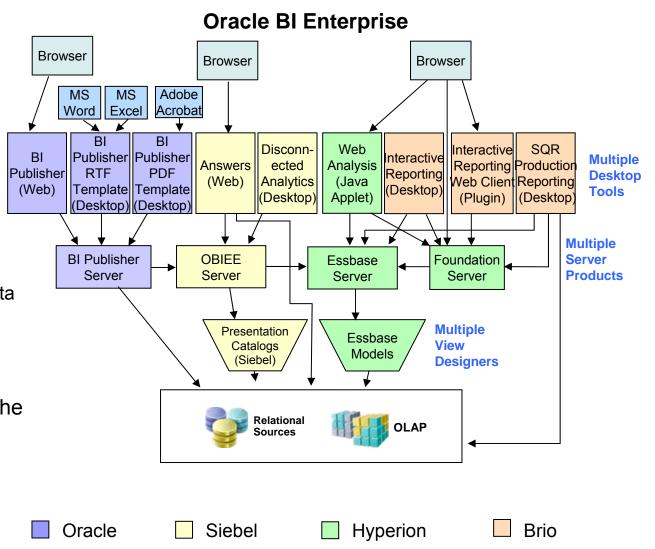
## DEMO: Gain Business Insight Through IBM Cognos 8 BI

- Use Go! Dashboard to quickly monitor the business operations
- Use Cognos Query Studio to customize an existing report
- Open Cognos Report Studio and add a chart to the report



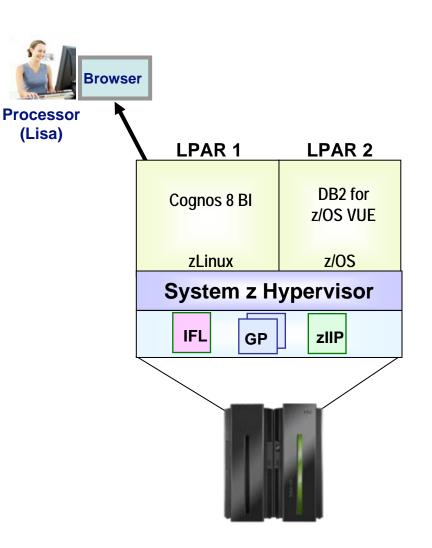
# Oracle Business Intelligence Enterprise Edition Is A Complicated Bundle

- Too Many Products!
- Multiple Desktop Client Tools
  - Multiple report formats
  - Multiple metadata models
  - Creates More work
  - Report specifications cannot be shared or reused easily
    - No common meta data model
- Creates IT Burden
  - Install, Patch, User Support all happen at the desktop

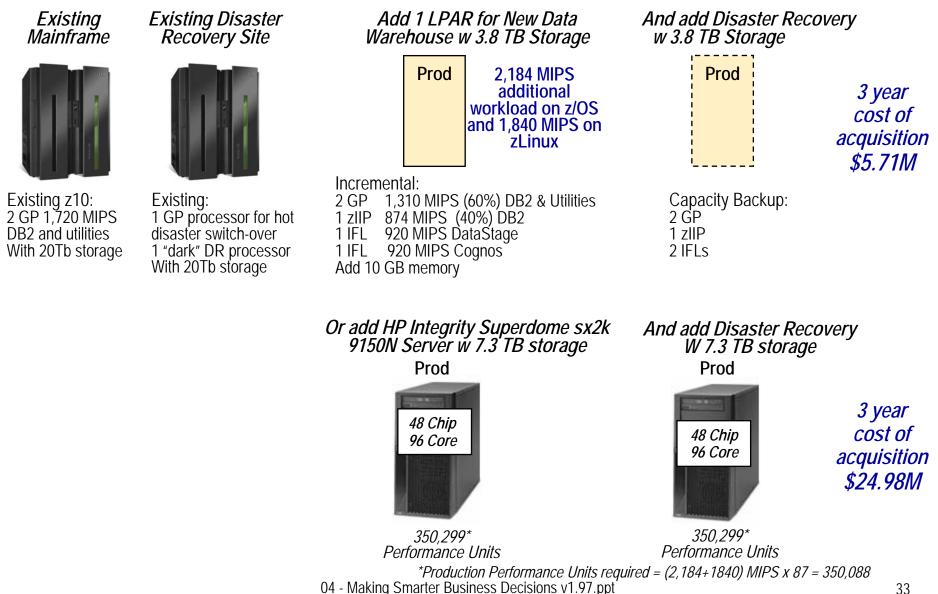


## IBM Proof Of Concept To Demonstrate Data Warehouse Scalability

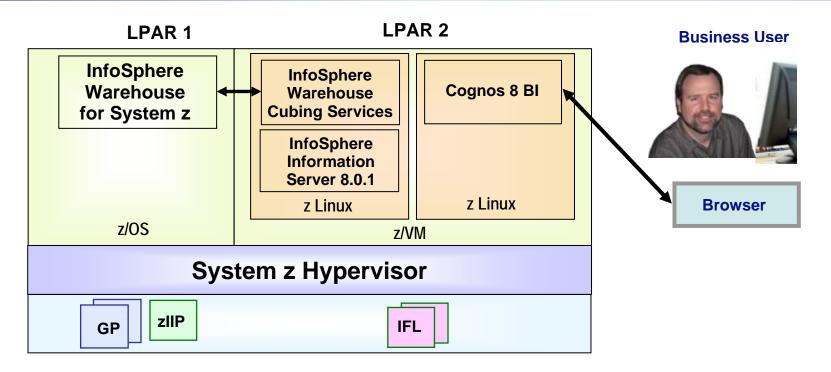
- Enterprise Data Warehouse
  - 50 TB Raw Data
  - 300 BILLION row table
- Hardware-assisted compression for data and indexes
  - Up to 63% savings on data
  - Up to 61% savings on indexes
- System z TCO exploits
  - zIIPs
  - IFLs
  - ICFs
- Best of Breed virtualization
- Best of Breed QoS



### Case Study: Deploy New 10TB Data Warehouse On z/OS With Disaster Recovery (Cognos Base Function)



### System z Provides A Comprehensive BI Solution



#### System z Offerings for Enterprise Data Warehouse and BI:

- InfoSphere Warehouse for System z
- InfoSphere Information Server for System z
- IBM Cognos 8 BI for System z
- Only IBM can provide an end to end Platform DW and BI Solution

# **IBM vs. Oracle Business Optimization**

	IBM	Oracle
Extensive Enterprise Connectivity	InfoSphere Information Server	Oracle-focused
Enterprise Scalability	InfoSphere Information Server	Waiting for Fusion
Integrated, Comprehensive Performance Management Platform	IBM Cognos	<b>NO</b> Multiple products (Oracle, Hyperion, Siebel) with different metadata models
Common metadata model	IBM Cognos	<b>NO</b> Multiple separate metadata strategies
100% web-based zero footprint BI	IBM Cognos	<b>NO</b> BI Publisher uses MS Word, Many BI functions require desktop apps and plug-ins